1139

50371

1140

SOUTHERN PACIFIC CO.
ENGINEERING DEPARTMENT
SAN FRANCISCO
JUL 3 1950

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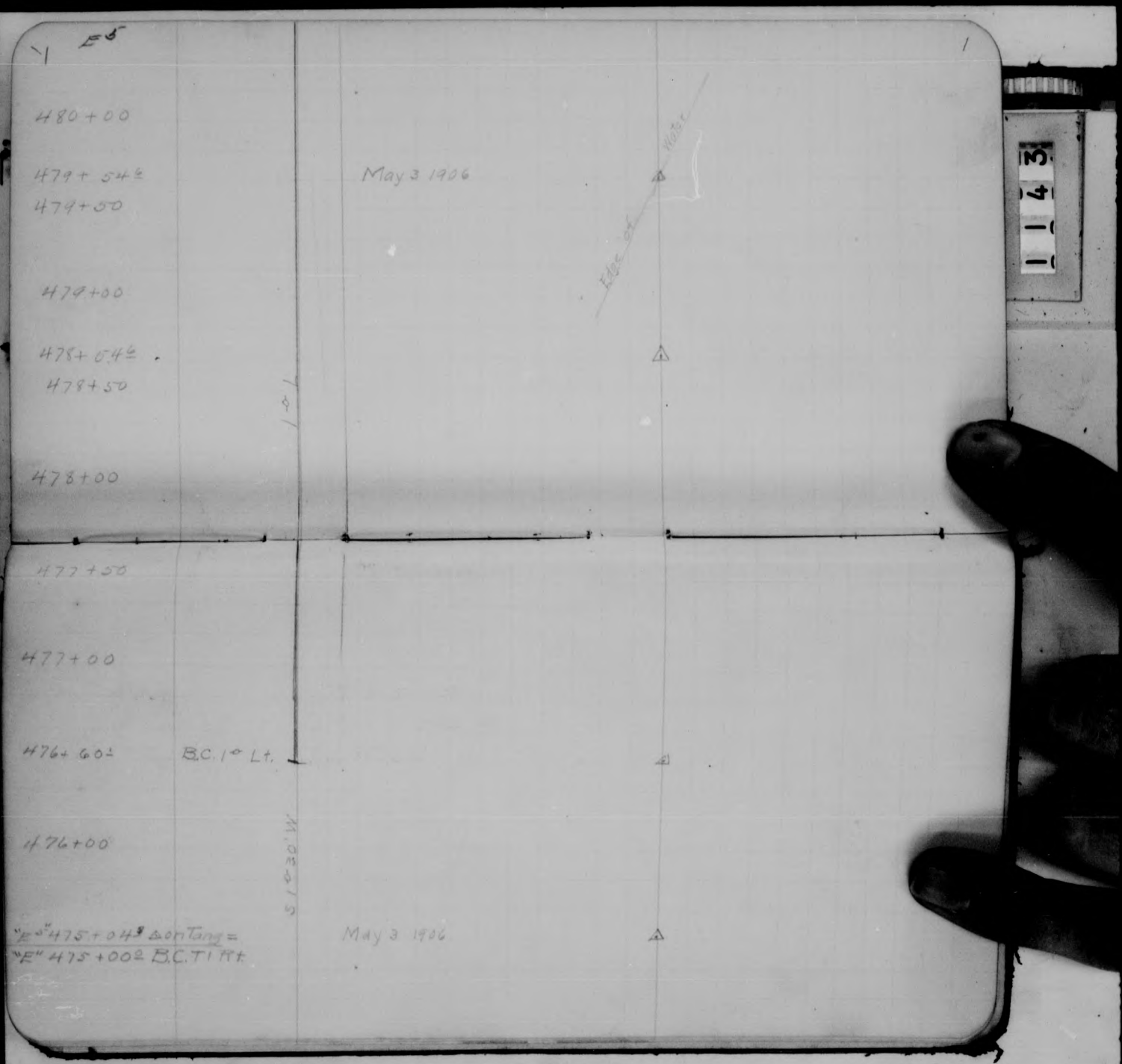
1141

Party

Bradford Wheeler		Assistant Engineer.
C.P. Keyser	Reno, Nevada.	Transitman.
Colon C. Dana	San Luis Obispo	Rodman.
Oscar A. Kraft	Berkeley	Head Chainman.
Stanley Cumberpatch	Berkeley	Rear Chainman.
Carlos V. Brown	Sacramento	Back Flagman
Walter D. Wiggin	Boston Mass.	Axman.
Norbert Mosher	Clarksburg	Teamster.

1142


E6
480+00
479+54.2
479+50
May 3 1906
Edge of WATER
479+00
478+54.2
478+50
478+00
477+50
477+00
476+60.2
B.C. 1° Lt.
476+00
"E" 475+04.8 on Tang =
"E" 475+00.2 B.C. T 1 Rt
May 3 1906

"E²"

N 485+50

485+00

484+50

484+00

483+50

483+00

Total Curvature 11°03½' Length of Curve 1105.83

Sem Tangent 553.68'

482+50

482+00

481+50

481+00

480+50

Stations 479+54.2 to 503+50 inaccessible in deep water. Distance triangulated April 30 1906

See page 34.

1144

"E"

494+00	
493+00	
492+00	
491+00	
490+00	
489+00	
488+00	
487+66	E.C.
487+52	
487+00	
486+00	
485+00	

S 9° 23' E

101

"E"

504+00

1° R

503+50

S.T. = 615.06

L.C. = 1225.43

503+48.1 P.C. 1° R

T.C. 12°15¼

503+00

502+00

501+00

500+00

499+00

498+00

497+00

496+00

495+00

6411

"E"	509+50	509+00	508+50	508+00	507+50	507+00	506+50	506+00	505+50

"E"

6

514+50

514+00

513+50

Pasture

513+00

1 of 11

512+50

512+00

511+50

511+00

High Ground

510+50

510+00

509+60?

1148

"E"

523+00

522+00

521+00

April 28 1906 Edge of Water

520+00

519+00

518+73±

518+00

517+00

516+00

515+73 E.C. R

515+50

515+00

S 2°41 3/4' W

100 ft.

Old Fence TR Water

71°26'

470±

90°00'

6411

"E5"

8

534+00

533+00

532+00

531+00

530+00

529+00

528+00

527+00

526+00

525+00

524+00

1150

"E 5"

9

545+00

544+00

543+00

542+00

541+00

540+00

539+00

538+00

537+00

536+00

535+00

1151

E 5

556 + 00

Slough. See p.p. 36-40

555 + 00

John Elliot
Pasture

554 + 44.0

554 + 00

553 + 94.0

+ 44.3

553 + 00

552 + 00

551 + 00

E. & W. Fence through 1/4 S. corner

2284.3 to center Sec 36

479.3'

87°35'

Tang. Produced

90.0

Shriner

25.42 ± To center Sec 35

Masher

308.5 on Tang.

Nicolaus Est
Pasture.

E 5 + 48 + 16.4 P.C.

550 + 00

Swampy Ground

549 + 00

548 + 37.3

548 + 00

547 + 00

546 + 00

April 26 1906

"E-5"

11

567+00

566+00

565+00

564+00

563+00 Slough see pp. 36-40

562+00

561+00

560+00

559+00

558+00

557+00

1153

"E"

12

578+00

577+00

576+00

575+00

574+00

573+00

572+00

571+00

570+00

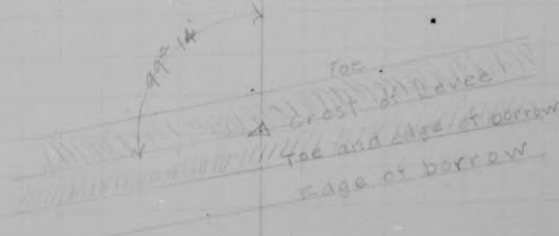
569+00

568+83

568+57.5

568+33

565+00



1154

"E"

584+00

583+00

582+00

581+00

580+00

579+00

584+00

585+00

586+00

587+00

588+00

13

1155

"E"

600+00

596+00

592+00

588+00

584+00

580+00

576+00

572+00

568+00

564+00

April 25 1906

April 26 1906

14

1156

"E"

15

611+00

610+00

609+00

608+00

607+00

606+00

605+00

604+00

603+00

602+00

601+00

1157

622+00

621+00 Uncultivated Ground

Subject to overflow

620+00

619+00 For Meander of Whitcomb Lake
See K Line Beginning at "E" 618+583
For Levees and other ajacent Topography see earlier Books.

618+00

617+00

Elliot Property Line

616+00 Joseph Bryan.

+22 Toe of Levee

615+01.4

615+00 Fence

+90 Crest of Levee

+80 Toe and Edge of Borrow Pit

+36 Edge of Borrow Pit.

614+00

Low Levee parallel To Fence.

Borrow Pit.

@ K 20+90

John Elliot.

613+00

Pasture

612+00

1158

"E"

633+00

632+00

631+00

630+00

629+00

628+00

627+00

626+00

625+00

624+00

623+00

131'

Line. Normal Line between Sections

Elist Property

Begin

Uncultivated Ground

Subject to overflow

17

11594

"E"

643+46.5

+ 26.5

643+00

642+00

641+00

640+00

639+00

+ 95.5

+ 97

+72

638+00

637+00

636+00

635+00

634+58.4

634+00

Wm. Johnston

Proposed Prop. line

Disputed by Johnston and Elliot

Claimed by Green

Canal Draining from Frog into Whitcomb Lake

Ulmer Green.

Sacramento Drainage Canal (Submerged)

Sta 634+58.4 to Sta. 643 inaccessible in deep water April 1906

Distance triangulated. See page 85

N. and S. Section Line

Joseph Bryan

11160

"E"
652+00
652+00
651+00
650+00
649+00
648+56.7
648+00
647+00
646+00
645+00
644+00

Wm Johnston

Post Fire

1161

"E"

20

664+00

663+00

662+00

661+00

+ 11.8

660+00

Fence Line produced ⊡ 234°2 (calculated) →
To West side of Lake →

Claimed by
John Elliot

659+00

Wm Johnston

658+00

Pasture.

657+00

North & South Section Line

656+00

655+00

654+00

1112

"E"

675+00

674+00

673+00

672+00

671+00

670+00

669+00

668+00

667+00

666+00

665+00

Slough (Not a Watercourse)

See p.p. 41-43.

Pasture

"E"

685+00

+ 71

684+00

N 84°20'E 285' Low Levee

Produce To corner With Johnston's Levee Page 47

Fence

683+00

Produce to corner with Fence shown on P. 47

45°

682+00

N 11°0'W

S 2°41'W

681+00

680+00

1312'

+ 57 E

Fence & Toe of Levee

+ 24 E

Crest of Levee

679+19 E

679+00

678+ 95 E

Toe of Levee

678+85

Edge of Ditch

678+53

Edge of Ditch

Ditch

N 47°27'W

Fence and Toe of Levee 1977' to corner

678+00

Wm Johnston

677+00

Pasture

676+00

"E"

691+00

690+50

690+00

689+50

689+00

688+50

688+00

687+50

687+37.1

687+00

686+00

1 & Rt

Boggy Pasture.

BC 1 & Rt

April 24, 1906.

April 25, 1906

R

"E"

696+50

696+00

695+50

695+00

694+50

694+00

10 Pt

Wm Johnston

Length of Curve 280.7'. Semi Tangent 143.2'

693+50

693+00

692+50

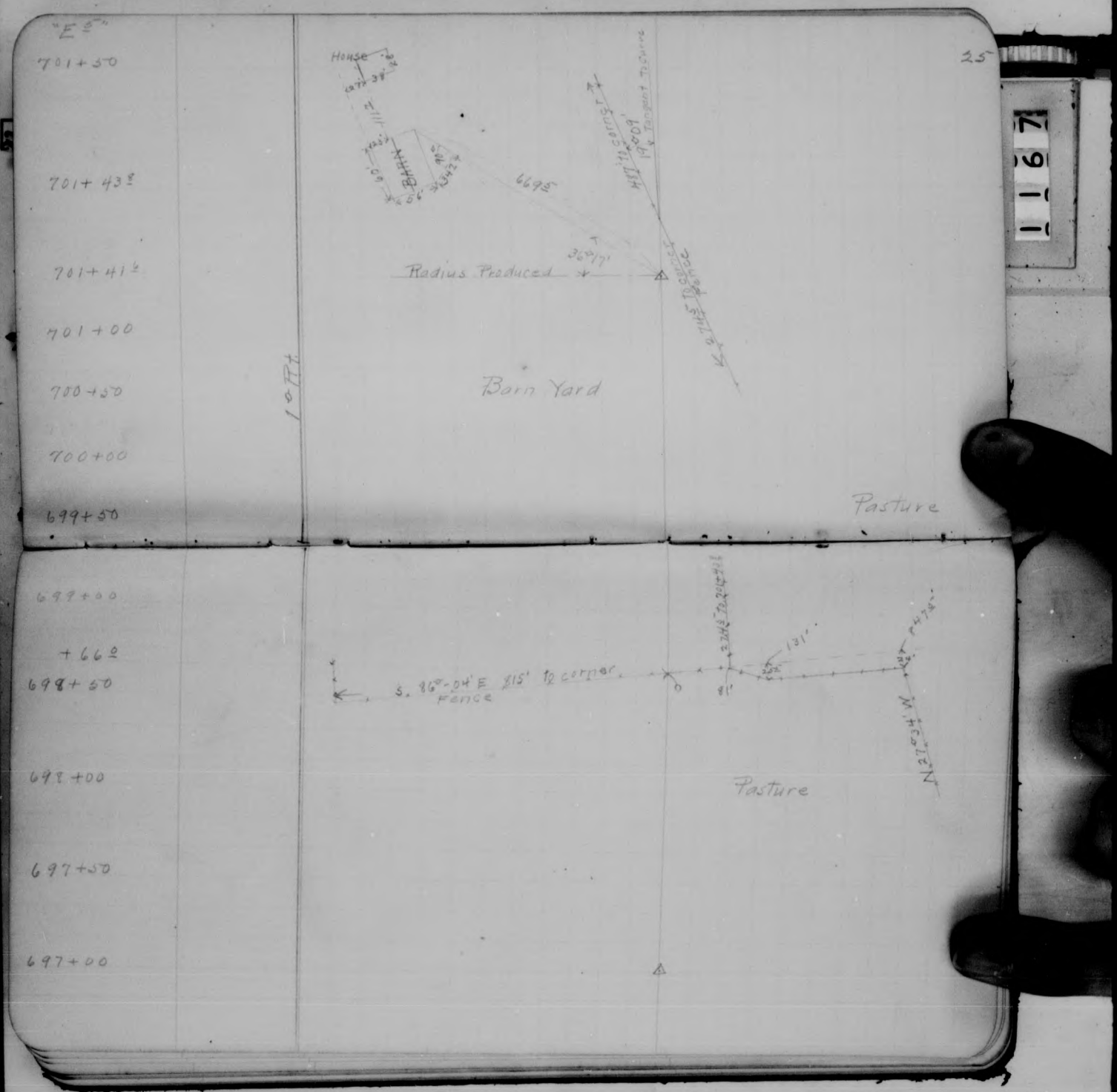
692+00

691+50

Total Curvature 28°-04½'

Boggy Pasture

11166


"E"
701+50
House
Bldg.
701+43
6695
Hill Corner
1° 4609'
Tangent Tangent
701+41
Radius Produced
36°17'
Fence
701+00
700+50
Barn Yard
700+00
699+50
Pasture
699+00
+66
698+50
S. 86°-04' E 815' to corner
Fence
698+00
Pasture
697+50
697+00
N 27°34' W

8911

707+00
+ 94
+ 50
706+00
705+50
705+48
705
704+50
704+00
703+50
703+00
702+00
702+00
Pasture
Pasture
High Ground
Fence 180.5' to Top of Terrace
Embankment
Part of old Rangeley Road
Tangent to Curve
Tangent to Curve
1 Ft
119'
112° 09'
86° 50'

"E"

712+50

712+00

711+50

711+00

710+50

710+00

1" Pit

Pasture

704+50

704+00

708+00

708+00

707+50

27

1169

"E"
720+00
719+00
718+00
717+00
716+00
715+45 ± EQ.
715+00
714+50
714+00
713+50
713+00

S 30° 46 1/4' W = 'E' S 30° 45' W

1" Pt.

April 20 1906

April 24 1906.

Pasture

Edge of Woods

See page 44.

28

1170

"E"

731+00

730+00

729+00

728+00

727+00

726+00

725+00

724+00

723+00

722+00

721+00

Pasture

Edge of slough.

See page 45

Slough. Not a water course.

29

1171

739+00

738+00

737+00

736+00

Pasture

735+00

734+00

733+00

732+10

731+70

30

1172

"E"

746+00

+72± Toe of slope

+50 Edge of crown

+32 " " "

+15± Toe of slope

745+00

(sta. 746+01 4 p. 32)

Water

County Road

Water

Edge of Borrow Pit

Toe of Levee

Crest

Toe of Levee

Fence

+91±

+81±

+57±

+30

+16

743+00

+81

+47

116' Span Bridge

Johnston Property Line

142±

Wm Johnston Meadow

+2?

742+00

To Franklin

64°13'

32°10'

741+00

+80

+47

+21

740+00

+88

+87

+46

739+28±

739+00

Fence

Ditch

Levee

Edge of Canal

Toe of Levee

Crest of Levee

Toe of Levee

Edge of Borrow Pit

" " "

Fence

Wm Johnston Pasture

"E"

756+00

755+00

754+00

753+00

752+00

751+00

750+00

749+00

748+00

+76

747+00

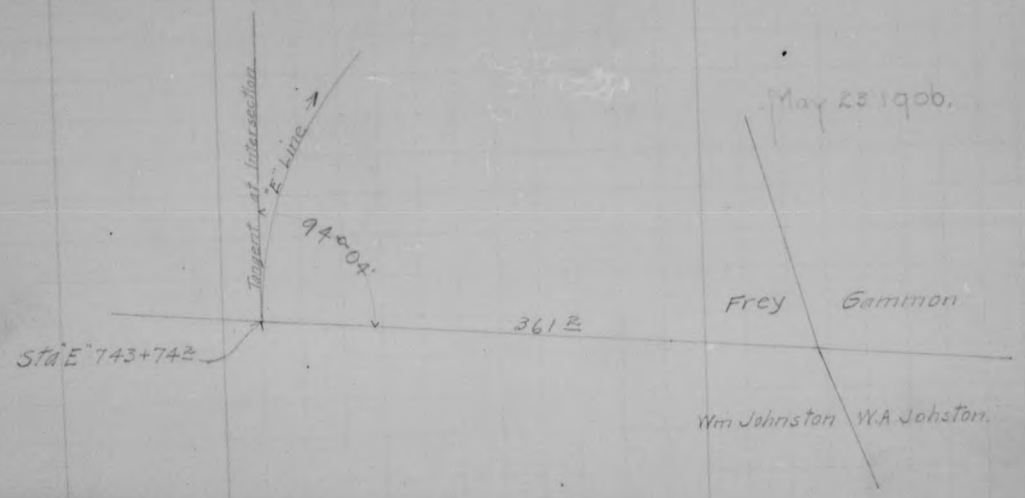
746+01

Henry Frey
Pasture

Measuring from Sta 756+40 E along Gammon Frey line S 10 20 W

721 ft. to Corner Frey's Pasture
897 " " " Gammon's Fence
960 " " South Side Franklin Road
975 " " North " " "
1010 " " Gammon's N.E. corner.
1078 " " Johnston's Levee.

Intersection of Property Line at Sta. "E" 743+74.2



May 23 1906.

"E"

April 20 1906

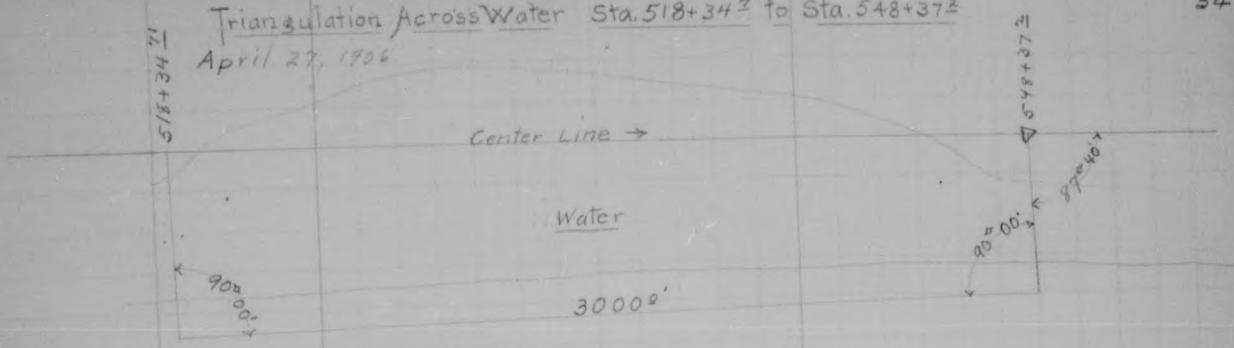
E 753+69.2 EC =
E 756+51.2 Tan Tang

756+40.2

1010' from intersection with C.L. to Gammon's N.E. Johnston's S.E. Corner

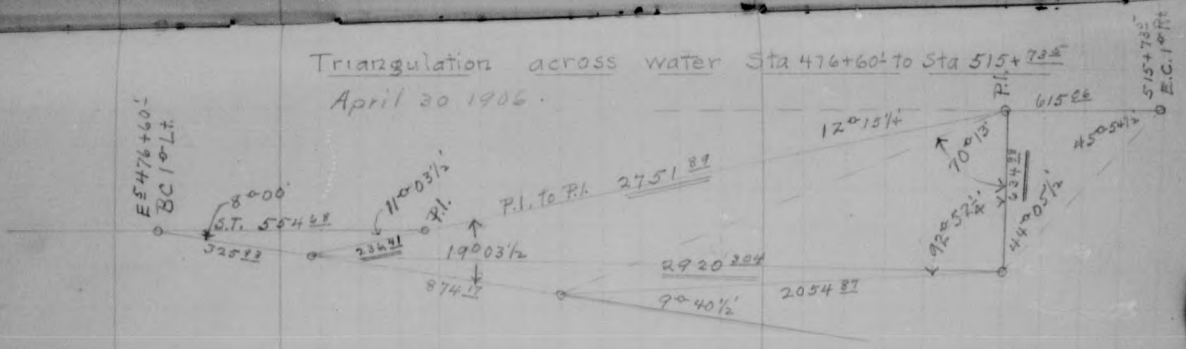
Triangulation Across Water Sta. 518+34.7 to Sta. 548+37.3

April 27, 1906



Triangulation across water Sta 476+60 to Sta 515+73.5

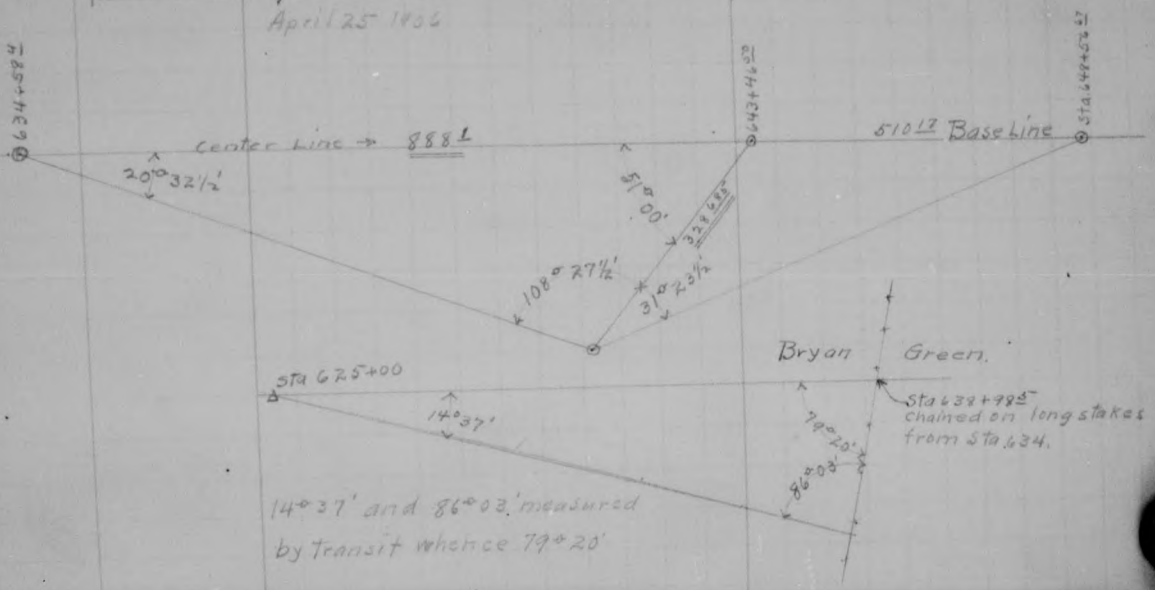
April 30 1906.



Distances and angles underscored with double line were obtained by calculation. Others were given, or measured in the field.

Triangulation Across Water Sta 634+58 to Sta. 643+46

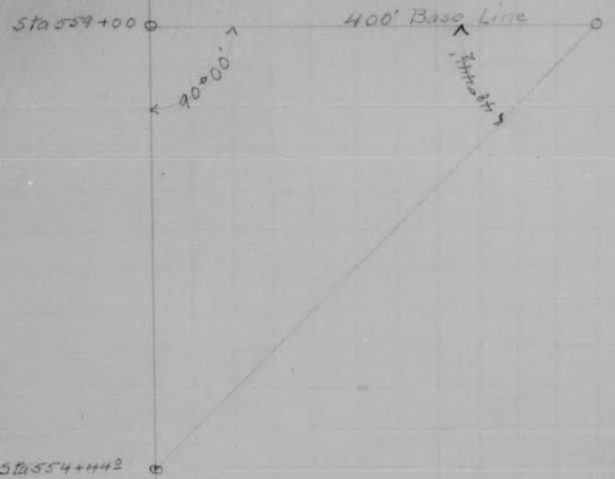
April 25 1906



14°37' and 86°03' measured by transit whence 79°20'

Triangulation Across Slough Sta. 554+44 to Sta. 559+00

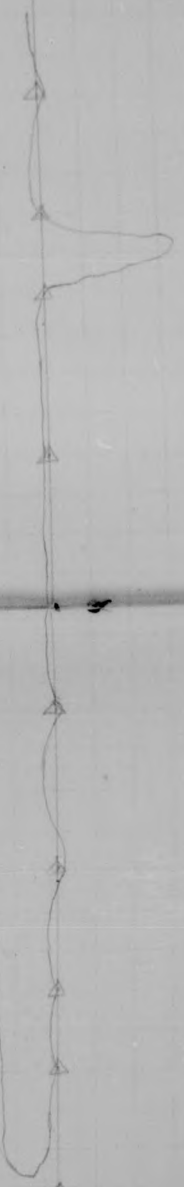
April 26 1906



Meander of Water Contour Sta "E5" 553+94 to "E5" 568+00 El 6±0 36

May 17 1906

19	
+69	44°38'L
18	
17	
+19	52°42'L
16	
+14	89°00'L
15	
14	
13	
+25	10°36'L
12	
11	
10	
9	
+89	124°30'R
8	
7	
6	
+37	77°37'L
5	
4	
+65	58°24'R
3	
+81	101°22 R
2	
1	
0+00 = E5 568+00	82°42'R



Meander of Water Contour El. 62.0, 5-17-06, Sta E 553+94 to E 568+00 37

41	
40	
39	
38	
37	
E 559+00 = 36+36.3	5° 15' L
36	
35	
34	
33	
32	
+85	83° 54' R
31	
+19	13° 23' R
30	
29	
28	
+76	73° 18' R
27	
+55	57° 20' R
26	
25	
+06	61° 53' L
24	
23	
22	
+21	45° 38' R
21	
20	

6711

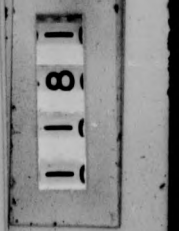
Meander of Water Contour El. 63.0, 5-17-06, Sta E. 553+44 to 568+00

63	
62	
61	
60	
+39.5	49° 51' R
59	
58	
57	
56	
55	
+53	28° 02' L
54	
53	
52	
+76	43° 54' L
51	
+23	28° 14' R
50	
49	
+04	41° 24' R
48	
47	
+57	19° 36' L
46	
45	
44	
43	
+24	31° 17' L
42	

1180

Meander of Water Contour El. 6^{30} 5-17-06, Sta. E^{s} 553+94 to E^{s} 568+00

85	
84	
+87^{5}	135°41'L
83	
82	
81	
80	
79	
+68	38°29'R
78	
77	
+43	26°22'R
76	
75	
+53	23°54'R
74	
73	
72	
71	
70	
69	
+57	46°52'L
68	
67	
66	
65	
+16^{5}	50°51'L
64	
63+66	118°06'L



Meander of Water Contour El. 6[30] 5-17-06 Sta. E[o] 553+94 to 568+00. 40

E[o] 553+94 = 99+24[3]	
99	
98	
+42[4]	23° 42' L
97	
96	
95	
94	
93	
+64	49° 20' R
92	
91	
+45	41° 06' R
90	
89	
88+00	45° 34' R
87	
86	
85+64.	34° 33' L

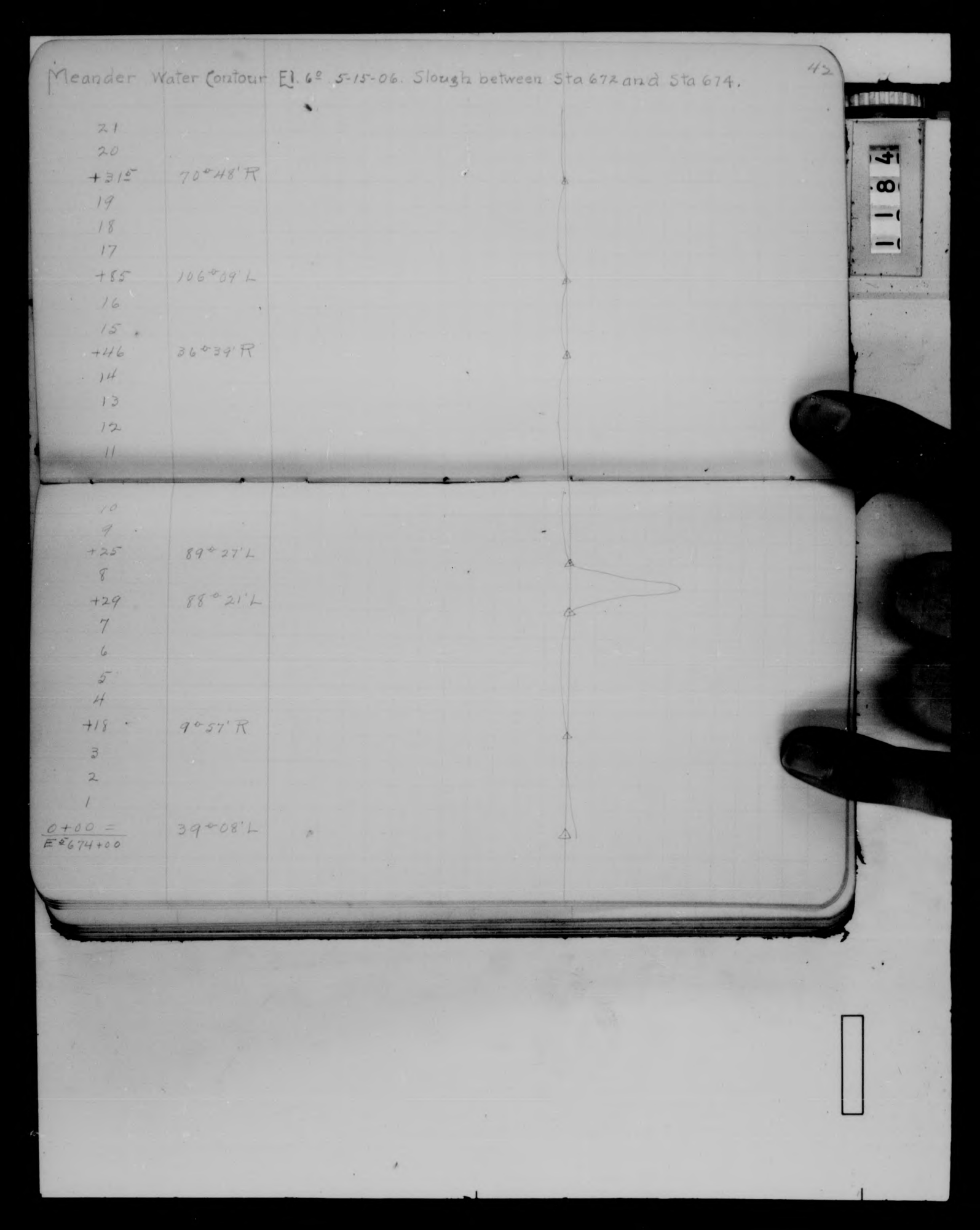
11821

Meander Water Contour El 6ᵉᵉ 5-15-06 Slough between Sta 672 and Sta 674.

+20	23°26'L
16	
15	
14	
13	
+05	15°34'R
12	
11	
10	
9	
+79	81°58'R
8	
7	
6+00	99°26'L
5	
+18.8	42°38'L
4	
3	
+26.4	142°54'R
2	
1	
0+00 = E⁵ 674+00	47°27'R

Meander Water Contour El. 6' 5-15-06. Slough between Sta 672 and Sta 674.

21	
20	
+31.5	70°48'R
19	
18	
17	
+85	106°09'L
16	
15	
+46	36°39'R
14	
13	
12	
11	
10	
9	
+25	89°27'L
8	
+29	88°21'L
7	
6	
5	
4	
+18	9°57'R
3	
2	
1	
0+00 = E 674+00	39°08'L



Meander of Water Contour El. 6± 5-15-06. Slough between Sta 672 and 674.

1185

+67	50°-07'L	To connection with levee borrow pit
35		
34		
33		
+10	65°44'R	
32		
31		
30		
+05	86°12'L	
29		
28		
27		
+32	68°52'R	
26		
25		
24		
23		
+08	42°38'L	
22		

Meander of Water Contour El. 6 ± 5-11-06, Slough between Sta 720 and 724.

+20		Connection levee borrow pit.
21		
20		
19		
+65	30°.25' L	
18		
+13	31° 11' L	
17		
16		
+80	13° 42' R	
15		
14		
13		
12		
11		
+68	22° 26' R	
10		
9		
8		
7		
+50	27° 11' L	
6		
5		
4		
3		
+68 ±	41° 18' R	
2		
1		
	98° 10' R	25'
0+00 = E 720+00	58° 65' L	To connection with levee borrow pit. Distance measured on S. side of slough.

11861

Meander of Water Contour El 68 5-11-06. Slough between Sta. 720 and 724.

7+44		connection with leree borrow pit.
3+39	35° 01' R	
0+00 E° 724+00	94° 50' L	
+74	44° 66' L	to connection leree borrow pit measured on North Side of Slough.
19		
18		
17		
16		
+16	7° 40' R	
15		
14		
13		
12		
+91	23° 01' R	
11		
10		
9		
+53	14° 57' L	
8		
7		
6		
5		
4		
3		
+35	34° 04' R	
2		
1		
0+00 = E° 724+00	83° 21' R	

1187

Franklin Road.

22
21
20
19
18
17
16
15
14
13
12
11
10
9

Wm Johnston.

Fence

Water in borrow pit.

Fence

Water in borrow pit

To Franklin →

Borrow Pit

Water in

Henry Frey

8
7
6
5
4
3
2
+44.2

Connect with p.31

County Road

P.O. 30

Fence

Fence

P.O. on E 13+44.2

May 23, 1906.

0+00 =
E 5+44.2+51.2

0+00 L

9.0+40.7

See page 31 for topography of fences bridge etc. not shown here.

1

1188

Franklin Road.

+51
+52½
45
44
43
42
41
40
39
38
37
36
35
34
33

2 S 48 R

32
31
+76
30
+10
+47
29
25
+10
27
26
25
+90
24
23

2 S 43 R

Wm Johnston

Levee

Fence

County Road

Fence
Low Levee

Henry Frey.

Water in borrow Pit

Levee

Water in Borrow Pit

Fence

Water in borrow pit

Franklin Road

Water in Borrow pit

Fence

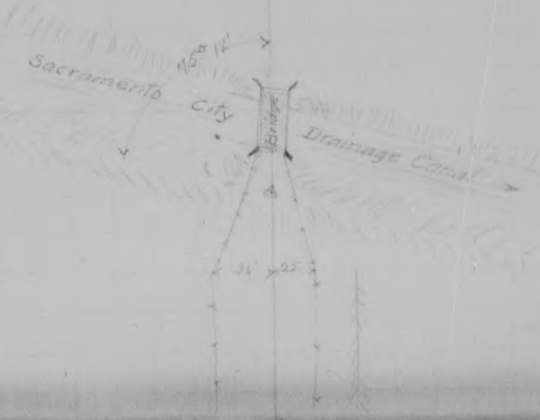
Road To Frey House

Fence

1189

Franklin Road.

May 23. 1906



+96
+77
64
63
62
61
60

59
58
57
56
55
54
53
52
51
50
44
48
47
46

County Road To Franklin
Sac Butte Lakes

1909

Sacramento City Drainage Canal.

+20	
89	
88+06	△ 29° 20' R
87	
86	
85	
84	
83	
82	
81	
80	
+60	2° 40' L
79	
78	
77	
76	
75	
74	
73	
72	
71	
70	
69	
68	
67	
66	
65	
64+77.2	75° 12' L △

Sac. Drain. Canal 64+77.2 =
Franklin Road 64+77.2

June 2. 1906

1191

Sacramento City Drainage Canal.

112
111
110
+70
+50
109
108
107
106 △ 84°30' L
105
104
103
102
101

Elev 5E
300'
76
50'
198' to water along embankment produced
80
110
△ 45° At ⊙ Back Tape
33
91
175'
water
270

100
99
98
97 △ 8°47' R
+20
96
+15
95
+17
94
93
92
91
90

220
242
283
To
△ 97° At ⊙ Back Tape
edge
West
103 - 7
188
130
12
33

1192

Sacramento City Drainage Canal.

+50
125
+70
134
133
+50 △ 78°00' R
132
+30
131
130
129 46°30' L △
128
127
126

150'

270' to Water on back Tangent produced

270

125
124
123
122
121
120
119
118
+50
117 △ 55°20 L
116
115
114
113

West Edge of Water

140

270'

△ 150' rt. angles to back tang.

75'

40

June 1, 1906.

June 2, 1906.

Sacramento City Drainage Canal

13
12
11
+50 11° 48' L
10
9
8
7
6
5
4
3
2
1
0+00 △ 166° 55' R
Sac City Drain Canal South 0+00 =
Franklin Road 64+77.2

"K" 77+50 =
140+11.5

140
139
+50
138
137
+50
136
135+65 △ 30° 40½' R

June 4 1906

June 7 1906

151
148

Levee
Crest of Levee
Canal
32'

4611

Sacramento City Drainage Canal and Bloom Lake.

37
36
35
34
33
32
31
30
29
28
27
26+00 △ 4° 40' L
+75
25
24
23
22
+75
21
+60 △ 13° 40' L
20
19
18
17
+30 △ 33° 40' R.

June 6 1906

1195

West Shore Bloom Lake.

60
59
58
57
56
55
+70 ▲ 24°50'R.
54
53
52
51
50
49

48
47
46
45
+50
44
43
+75 ▲ 26°40'R
42
41
+40
40
39
38

9611

West Shore Bloom Lake.

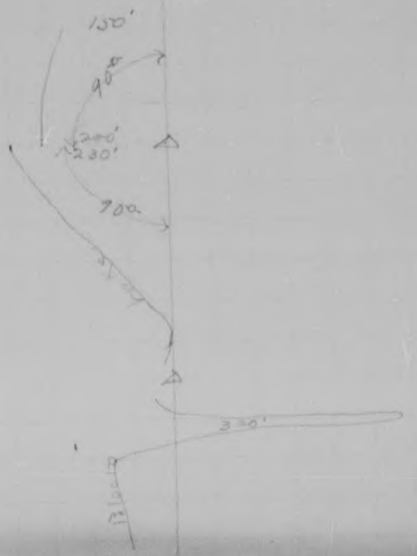
87
86
85+00 △ 45° 30' L
84
83
82
81
80
79
78
77 △ 60° 20' R
76
75
74

73
72
71 △ 106° 25' L
70
69
68
67
66
65
64
+45 △ 38° 40' R
63
62
61

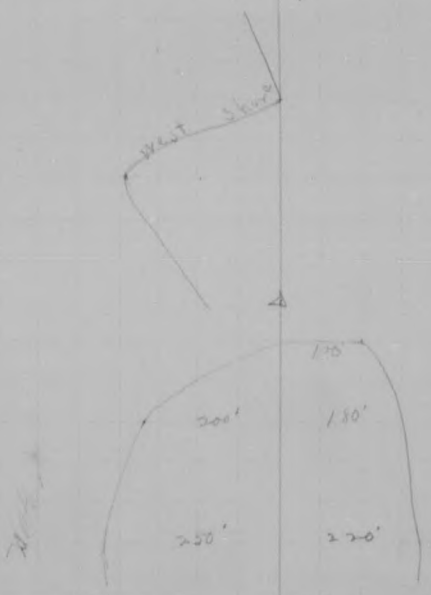
11971

West Shore Bloom Lake.

102
101
100
99 △ 128°38' R.
98
97
96
95
+96
+55 △ 85°30' L
94
+50
93
92



91
90
+50
89
88
87
86
85+00 P 56 =
85+00 P 55 △ 99°10' R
93
92
91
90
89
88



West Shore Bloom Lake.

12+00 Dam Axis = 108+37

108
107
106
105
104
103

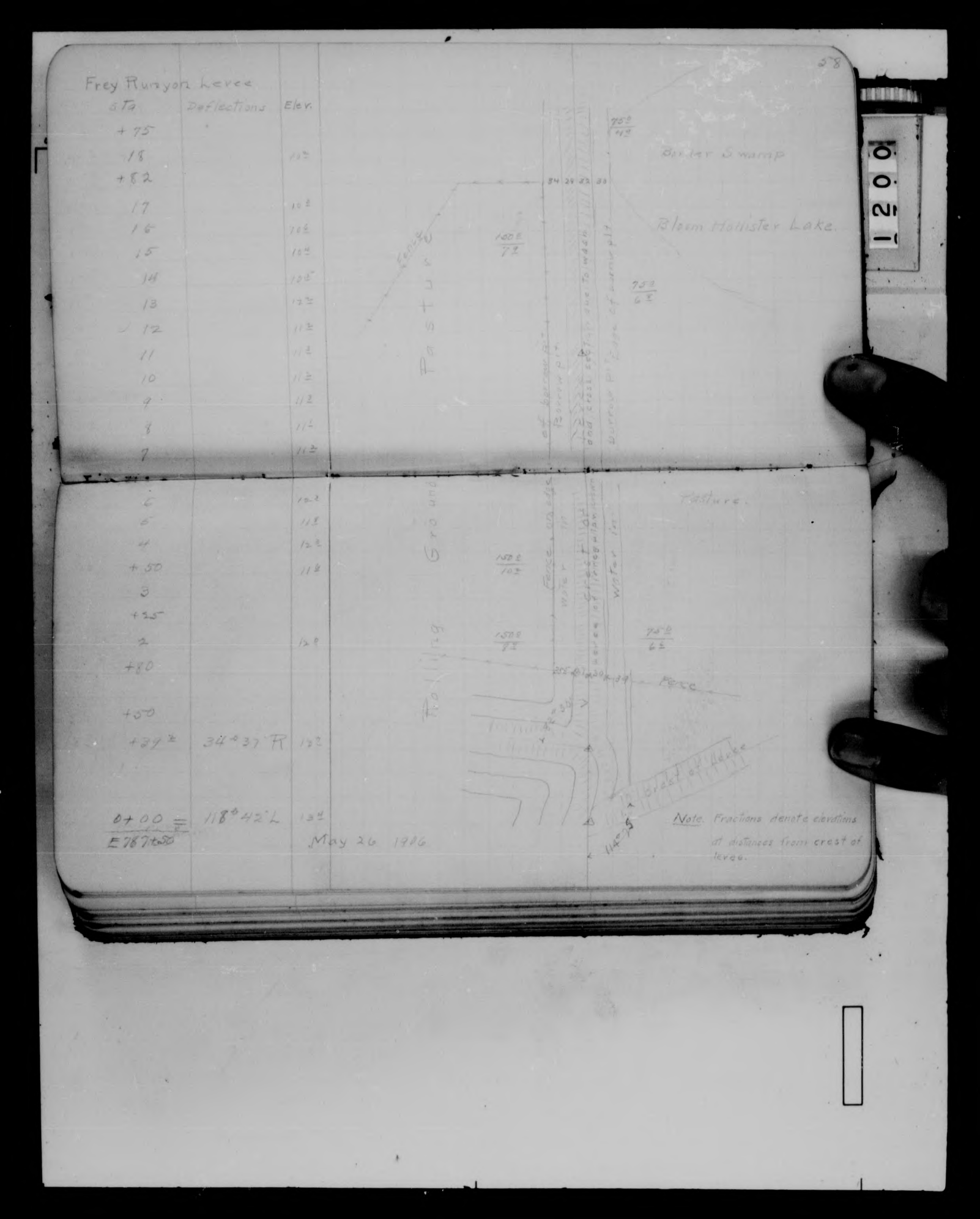
June 9 1906

51

1199

Frey Runyon levee

Sta	Deflections	Elev.
+75		
18		10±
+82		
17		10±
16		10±
15		10±
14		10±
13		12±
12		11±
11		11±
10		11±
9		11±
8		11±
7		11±
6		10±
5		11±
4		12±
+50		11±
3		
+25		
2		12±
+80		
+00		
+37½	34°37' R	13±
0+00 = E787+50	118°42' L	13±



Frey Runyon Levee.

		Elev.
37		10.4
36		10.2
35		11.1
34		11.2
440		10.5
33		7.8
+80		5.4
+40		6.5
32		11.9
31		12.2
+32	△ 48° 00' L	11.9
30		12.8
29		14.4
28		13.5
27		12.8
26		12.8
+50		12.8
25		12.5
+02	△ 33° 14' L	12.4
24		12.1
+50		
23		12.8
22		11.9
+50		
21		11.4
20		11.2
19		10.3

Water

Water in borrow pit

Crest of levee

Water in borrow pit

Water in borrow pit

Crest of levee

Water in borrow pit

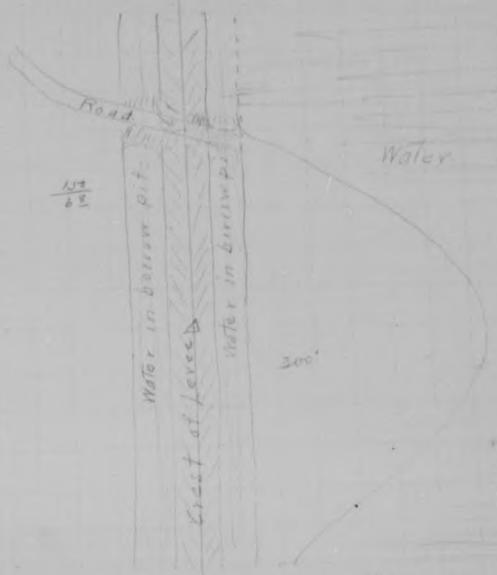
End of borrow pits.

1201

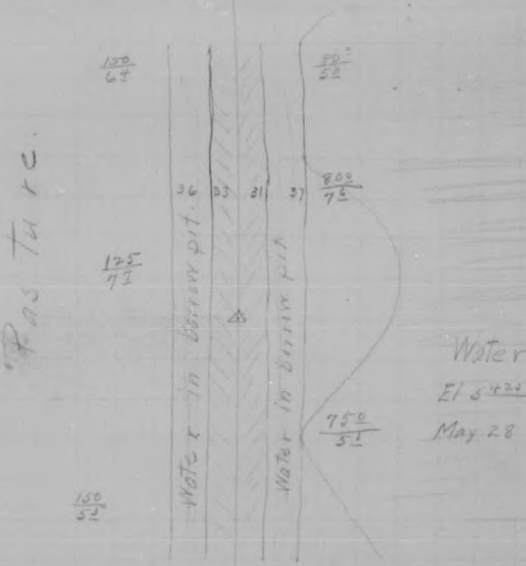
Frey Runyon Levees.

		Elev.
58		11.6
+16		
57		11.4
56		11.7
55		11.2
+10		11.5
54	△ 0°55' L	13.1
+85		13.1
+75		11.4
53		11.3
52		11.2
51		12.2
50		11.3

May 28, 1906
May 26-1906

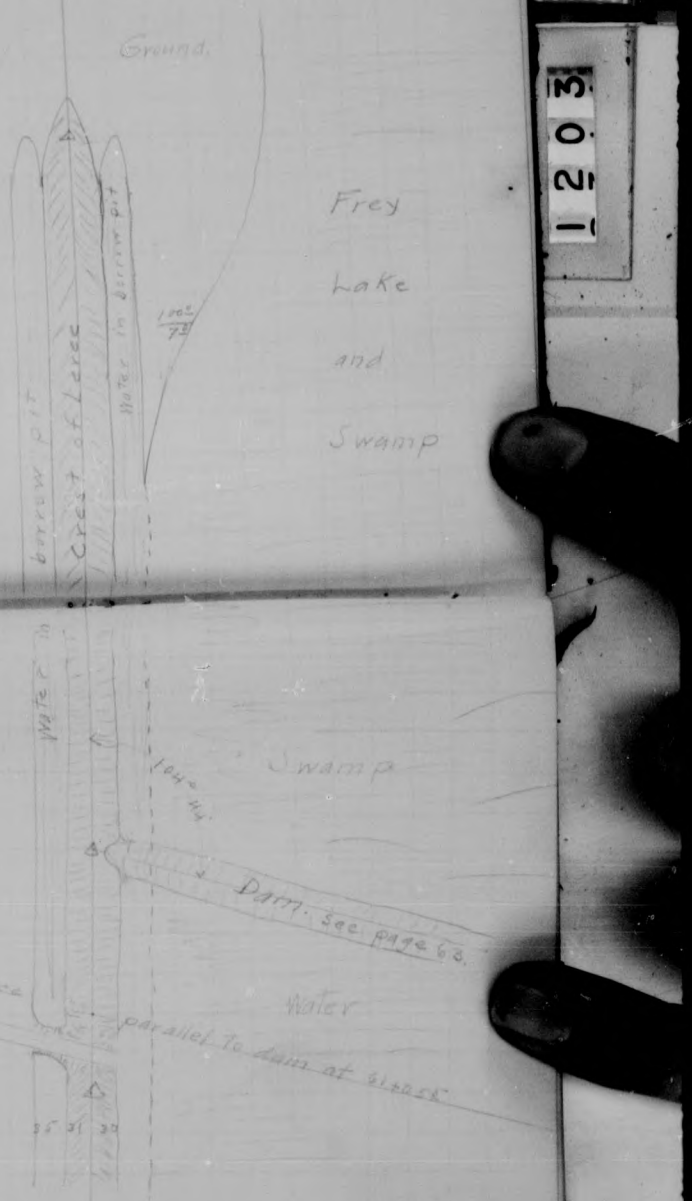


49		11.3
48		10.2
47		11.1
46		10.2
45		11.1
44		11.1
43		11.4
+42	△ 43°40' L	
42		11.1
41		10.2
+50		
40		10.4
39		10.5
38		11.3



Frey Runyon Levees.

		Elev.
69		12±
+50		13±
△ 68	31° 35' L	12±
+80		11±
+50		13±
+25		
67		12±
+50		
66		12±
+70		11±
+60		9±
65		10±
+65		9±
64 +40		12±
64		12±
63		12±
+65		11±
62		11±
+50		11±
+05±	△ 12° 00' R	13±
61		13±
+50		12±
+40		10±
+32		9±
60		10±
+70	△ 14° 40' L	
+40		11±
59		11±



1203

Frey Runyon Levees

83		13.2
+84		12.7
+81		13.6
+55		12.6
+20		13.0
82		11.8
+15		13.0
81		11.5
+70		13.6
80		11.9
+60		12.4
+45		10.2
79		10.2
+80		11.8
+70		13.4
78		11.0
+40		10.6
+35		13.8
77		11.3
+18	△ 12°30' L	
76		11.2
+00	△ 22°17' R	12.2
75		12.5
74		12.4
73		12.8
72		12.7
71		14.2
70		14.5

Fence
water in borrow pit
Crest of Levee
water in Borrow pit
Canal
End of borrow pits
65'
Frey
Lake
and
Swamp
Pasture
High
Ground
300

1204

Frey Runyon Levees.

May 28 1906 High Ground.

12+00 — 7.3
+71 — 9.2
11 — 10.1
10 — 12.5
+70 — 12.1
9 — 0°43' L — 11.7
+12 — 9.2
8 — 9.5
7 — 9.5
+70 — 8.8
6 — 8.4
5 — 9.4
+85 — 9.0
4 — ← Drainage North

3 — 8.2
2 — 7.2
1 — 7.1
0+13 — 6.2
0+00 Dam = 61+05.2 Frey Run Levee — 104°44'R — 13.0 Angle from foresight in long ahead.

7+45.2 Franklin Road
89+53.2 F&R Levees

89 — 14.4
~~88~~ — 10.2
88 — 13.1
+35 — 13.4
87 — 13.4
86 — 13.4
85 — 13.0
84 — 13.2

See page 61.

See pages 46 and 31

1205

Levee, 'E' Line West to Barn, Johnston Estate.

64

18+00	
17	
16	
+62	
15+00	3° 30' L.
14	
13	
+77	
+48	20° 45' L
12	
11	
10	
9	
+60	
8	
+45	3° 40' L
7	
6	
5+39	38° 15" R.
+21	31° 05' R
4	
+34	27° 20' R
+25	
3	
2	
+70	16° 55' L
1	
+23	
0+00 = "E" 679+582	86° 00' R

1206

Levee, "E" Line West to River Terry Estate.

25
24
23
22
21
20
+65 ∆ 10°40' L
19
18
17
16
15
14
+35 ∆ 14°45' R

Rail Fence

Orchard.

Terry Estate

13'

∆

∆

Fence

Crest of Levee

13
12
11
10
9
8
7
6
5
4
3
2
1

0+00 = E 781+67.4 ∆ 6°02'5" R

June 1 1916

65

1207

Water Contour Hollister Lake June 8 1906.

7+35
9
8
+50
7
+20
6+00 △72°30' R.
5+95
5
+75
+20
4
+50
3
2
1
0+00 = △119°20' L
E° 847+00

North Edge Pearson heree Borrow Pit.
5' 55°
21
19
30'
21
10'

Leree on Terry Estate E787+50 West To River.

June 8, 1906

Wagon Road.
Fence 265
74°30'
Fence

+ 15
+122
28
27
26

1208